



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Pekka MIELONEN et al

Art Unit: 3676

Application No: 09/405,436

Examiner:  
Lloyd A. Gall

Filed: September 23, 1999

For: CYLINDER LOCK-KEY-COMBINATION

AMENDMENT

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**RECEIVED**  
APR 28 2004  
**GROUP 3600**

Sir:

Please make the following amendments to this application.

#### DESCRIPTION AMENDMENTS

**Rewrite the paragraph beginning on page 10, line 33, to read as follows:**

FIG. 2a shows a key blank 2 for a lock according to FIG. 1 including a key bow 2a and a key shank 2b. FIG. 2b shows correspondingly a key 2 made from the key blank 2 of FIG. 2a and ~~the shank 2b of which includes~~ including a shank 2b and a bit formed with combination surfaces 2c for all the locking discs 4 and 6 in the set of discs. The key of FIG. 2b includes totally four series of combination surfaces for each locking disc, whereby there are two series for each turning direction so that the key may be inserted in the lock in two different turning positions differing from each other by 180°. In addition the key includes grooves 2f for the guiding element 14 and recesses 2d for balls or corresponding blocking members included in the disc controller 11. The operation of these balls is based on the fact that when the key is inserted in the lock they are pressed against respective springs allowing hereby insertion of the key into the lock. However, as soon as the key is turned, guiding surfaces arranged in the disc controller 11 press the balls towards the key channel so as to be located partly in the recesses 2d thereby preventing removal of the key from the lock.